

## EAST Search History

EAST Search History (Prior Art) /DC/ - 11/29/2010

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	29533	((\\$oxyethylene or \\$oxyalkylene or (ethylene adj oxide) or ethoxylated) with (((phosphate or sulfate) near2 ester) or sulfonate))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/08/21 12:55
S2	5077	S1 and styrene with (\$1ethyl\$4acrylate or alkyl\$4acrylate or \$1propyl\$4acrylate or \$4acrylate or \$4acrylic))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/02/08 08:45
S3	62	S2 and ("ditallowdimethylammonium" or "ditallow dimethyl ammonium" or "ditallowdimethyl ammonium")	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/02/08 08:29
S4	2	S3 and (sizing with paper)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/02/08 08:29
S5	147	S1 and (ketene adj (dimer or multimer) or diketene)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/02/08 08:47
S6	147	S1 and ((ketene adj (dimer or multimer)) or diketene)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/02/08 10:49
S7	58	S2 and S6	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/02/08 08:37
S8	3556	S2 and (sizing or coating)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/02/08 08:37
S9	2644	S2 and ((sizing or coating) with paper or sheet)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/02/08 08:46
S10	52	S9 and (ketene adj (dimer or multimer) or diketene)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/02/08 10:22
S11	51	S10 and (surfactant or ammonium or quaternary)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/02/08 08:46
S12	6585	((\\$oxyethylene or \\$oxyalkylene or (ethylene adj oxide) or ethoxylated) near2 (((phosphate or sulfate) near2 ester) or sulfonate))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/02/08 09:22

S13	688	((\\$4oxyethylene or \\$4oxyalkylene or (ethylene adj oxide) or ethoxylated) adj (((phosphate or sulfate) near2 ester) or sulfonate))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/02/08 08:45
S14	151	S13 and (styrene with (\$1ethyl\\$4acrylate or alkyl\\$4acrylate or \$1propyl\\$4acrylate or \\$4acrylate or \$4acrylic))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/02/08 08:45
S15	83	S14 and ((sizing or coating) with paper or sheet)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/02/08 08:52
S16	48	S15 and (surfactant same (ammonium or quaternary))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/02/08 08:52
S17	1	S16 and (ketene adj (dimer or multimer) or diketene)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/02/08 08:47
S18	1	S16 and ((lignin adj sulfonate) or (naphthalene adj condensate))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/02/08 10:23
S19	45	S14 and ((sizing or coating) with paper)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/02/08 08:52
S20	20	S19 and (surfactant same (ammonium or quaternary))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/02/08 08:52
S21	298	emulsifier same ((alkyl adj sulfonate) with ((ethylene adj oxide) or ethoxylate\$1))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/02/08 09:24
S22	62	S21 and (styrene and ((alkyl or methyl or ethyl or propyl) adj \\$4acrylate))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/02/08 09:25
S23	14	S22 and ((coating or sizing) with paper)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/02/08 10:07
S24	4	(("6306255") or ("4228277") or ("4239592") or ("4687519")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/02/08 09:49
S25	62	(styrene adj acrylic adj ester) and (sizing with paper)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/02/08 10:11
S26	801	(styrene with (methyl or ethyl or propyl) adj \\$4acrylate) and (sizing with paper)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/02/08 10:12
S27	801	(styrene with ((methyl or ethyl or propyl) adj \\$4acrylate)) and (sizing with paper)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/02/08 10:21

S28	217	(styrene near2 ((methyl or ethyl or propyl) adj \$4acrylate)) and (sizing with paper)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/02/08 10:21
S29	160	S27 and (ketene adj (dimer or multimer) or diketene)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/02/08 10:47
S30	92	S29 and surfactant	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/02/08 10:28
S31	47	S29 and (surfactant same (ammonium or quatern\$4))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/02/08 10:24
S32	0	S29 and ((lignin adj sulfonate) or (naphthalene adj condensate))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/02/08 10:49
S33	1	("6306255").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/02/08 10:47
S34	8	((lignin adj sulfonate) or (naphthalene adj condensate)) and ((ketene adj (dimer or multimer)) or diketene) and (cationic adj surfactant)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/02/08 10:54
S35	21	((lignin adj sulfonate) or (naphthalene adj condensate)) and ((ketene adj (dimer or multimer)) or diketene) and (cationic with surfactant)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/02/08 10:54
S36	1	("4051093").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/02/08 15:44
S37	1	("20040206274").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/02/08 15:45
S38	3383	(106/164.4.287.2-287.3).OCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/02/08 16:02
S40	1572	(106/164.4.287.2.287.24).OCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/02/08 16:04
S41	6	("4214948"   "4529447"   "5498648"   "5969011"   "6162328"   "6426381").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/21 11:37
S42	2	((20020100567) or ("20030019599")).PN.	US-PGPUB; USPAT	OR	OFF	2007/02/08 16:11
S43	3	(("4228247") or ("4239592") or ("4687519")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/08/21 11:37
S44	32	((ketene adj dimer) or AKD) and ((oxyalkylene same sulfate\$1) or (oxyalkylene near5 phosphate\$1) or ((alkyl adj sulfate) same ethoxylate\$1) or ((alkyl adj sulfate) same (ethylene adj oxide)) or ((alkyl adj phosphate) same ethoxylate\$1) or ((alkyl adj phosphate) same (ethylene adj oxide)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/08/21 13:18

S45	2	wo-9731152-\$ did.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/08/21 13:20
S46	1	1997-435197.NRAN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/21 13:19
S47	5	"6284099"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/08/21 13:20
S48	11	(sizing adj (dispersion composition emulsion)) and papermaking and (AKD (ketene adj dimer) (ketene adj multimer)) and ((nonS1reactive adj siz\$3))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2008/04/09 17:33
S49	4	(sizing adj (dispersion composition emulsion)) and papermaking and (AKD (ketene adj dimer) (ketene adj multimer)) and (((phosphate sulfate) near2 ester) same (polyoxyethylene (ethylene adj oxide)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2008/04/09 17:34
S50	35	(AKD (ketene adj dimer) (ketene adj multimer)) and (((phosphate sulfate) near2 ester) with (polyoxyethylene (ethylene adj oxide)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2008/04/09 17:34
S51	1	wo-02090653-\$ did.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2008/04/09 17:35
S52	3	(("6692560") or ("4529447") or ("4810301")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/04/09 17:35
S53	330	(AKD (alkS2yl adj ketene) (ketene adj dimer)) same3 ((acrylic vinyl (ethylenically adj unsaturated)) near3 \$2polymer\$1)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2008/12/08 16:10
S54	219	S53 and (styrene with (acrylate acrylic))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2008/12/08 16:10
S55	54	S53 and ((phosphate (phosphoric adj acid)) near3 ester)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2008/12/08 16:11
S56	46	S54 and S55	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2008/12/08 16:11
S57	3	(("6162328") or ("6210475") or ("20060254736")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/12/08 16:19
S58	2228	(phosphate adj ester) with (surfactant emulsifier) with (ethoxylated polyoxyethylene)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2008/12/09 15:00
S59	33	S58 and ((alkyl adj ketene) diketene AKD)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2008/12/09 15:00
S60	20	S59 and (sizing sized)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2008/12/09 15:02

S61	1297	((ketene adj dimer) diketene) (alk\$2yl adj succinic adj anhydride)) and ((non \$1cellulose adj reactive) (cellulose non \$1reactive)) and styrene and (acrylate methacrylate (ester near3 acrylic) (ester near3 methacrylic))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/08/05 12:56
S62	23	((ketene adj dimer) diketene) (alk\$2yl adj succinic adj anhydride)) and ((non \$1cellulose adj reactive) (cellulose adj non \$1reactive)) with (size sizing)) and styrene and (acrylate methacrylate (ester near3 acrylic) (ester near3 methacrylic))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/08/05 12:56
S63	163	S61 and "162"/\$.cols.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/08/05 12:56
S64	173	S62 S63	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/08/05 12:56
S65	25	S64 and ((phosphate phosphoric) near3 ester)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/08/05 12:57
S66	50	(Rhodafac with ("RS-710" RS710))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/08/05 12:57
S67	3	S64 and S66	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/08/05 12:57
S68	3	("4051093").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2009/08/05 13:18
S69	3	(("6576049") or ("4051093") or ("6306255")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/08/05 15:32
S70	1722	(162/135,184,185).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2010/11/29 14:36
S71	3106	(162/158,168.1,168.7).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2010/11/29 14:37
S72	1719	(106/164.4,287.2,287.24).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2010/11/29 14:37
S73	127	(549/329).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2010/11/29 14:38
S74	10	S70 and (S72 S73)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2010/11/29 14:42

S75	348	(162/168.7).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2010/11/29 14:43
S77	31	S70 and S75	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2010/11/29 14:43
S78	1	S73 and S75	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2010/11/29 14:43
S79	1548	((oxetanone diketene (ketene adj (dimer multimer))) and \$3polymer and styrene and (acrylate methacrylate (acrylic near3 ester) (methacrylic near3 ester)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2010/11/30 05:26
S80	969	((oxetanone diketene (ketene adj (dimer multimer))) and \$3polymer and ((3polymer monomer) near10 styrene) and ((3polymer monomer) near10 (acrylate methacrylate (acrylic near3 ester) (methacrylic near3 ester)))	US-PGPUB; USPAT; USOCR	OR	ON	2010/11/30 05:26
S81	644	S80 and (paper near8 (sized sizing coated coating))	US-PGPUB; USPAT; USOCR	OR	ON	2010/11/30 05:27
S82	160	S80 and (phosphate near3 ester)	US-PGPUB; USPAT; USOCR	OR	ON	2010/11/30 05:27
S83	51	S80 and (phosphate near3 ester) near20 (\$4oxylated oxy\$4ylene (\$4ylene adj oxide) polyoxy\$5ylene)	US-PGPUB; USPAT; USOCR	OR	ON	2010/11/30 05:27
S84	93	((oxetanone diketene (ketene adj (dimer multimer))) and ((phosphate near3 ester) near10 (\$4oxylated oxy\$4ylene (\$4ylene adj oxide) polyoxy\$5ylene)))	US-PGPUB; USPAT; USOCR	OR	ON	2010/11/30 05:30
S85	48	S84 not S83	US-PGPUB; USPAT; USOCR	OR	ON	2010/11/30 05:30
S86	1560	((3polymer monomer) near10 (acrylate methacrylate (acrylic near3 ester) (methacrylic near3 ester))) and ((phosphate near3 ester) near10 (\$4oxylated oxy\$4ylene (\$4ylene adj oxide) polyoxy\$5ylene))	US-PGPUB; USPAT; USOCR	OR	ON	2010/11/30 05:30
S88	340	S86 and (paper near8 (sized sizing coated coating))	US-PGPUB; USPAT; USOCR	OR	ON	2010/11/30 05:31
S89	34	S84 and S88	US-PGPUB; USPAT; USOCR	OR	ON	2010/11/30 05:32
S90	89	((oxetanone diketene (ketene adj (dimer multimer))) and \$3polymer and styrene and (acrylate methacrylate (acrylic near3 ester) (methacrylic near3 ester)))	EPO; JPO; DERWENT	OR	ON	2010/11/30 05:34
S91	4	S90 and (phosphate near3 ester)	EPO; JPO; DERWENT	OR	ON	2010/11/30 05:35
S92	11	((oxetanone diketene (ketene adj (dimer multimer))) and (phosphate near3 ester))	EPO; JPO; DERWENT	OR	ON	2010/11/30 05:38
S93	1054	(\$3polymer monomer) and (acrylate methacrylate (acrylic near3 ester) (methacrylic near3 ester)) and (phosphate near3 ester)	EPO; JPO; DERWENT	OR	ON	2010/11/30 05:42

S94	305	(\$3polymer monomer) and (acrylate methacrylate (acrylic near3 ester) (methacrylic near3 ester)) and (phosphate near3 ester) and (\$4oxylated oxy\$4ylene (\$4ylene adj oxide) polyoxy\$5ylene)	EPO; JPO; DERWENT	OR	ON	2010/11/30 05:43
S95	11	S94 and (paper near8 (sized sizing coated coating))	EPO; JPO; DERWENT	OR	ON	2010/11/30 05:44
S96	17	S94 and paper and (sized sizing coated coating)	EPO; JPO; DERWENT	OR	ON	2010/11/30 05:44
S97	132	(\$3polymer monomer) and (acrylate methacrylate (acrylic near3 ester) (methacrylic near3 ester)) and ((phosphate near3 ester) near10 (\$4oxylated oxy\$4ylene (\$4ylene adj oxide) polyoxy\$5ylene))	EPO; JPO; DERWENT	OR	ON	2010/11/30 05:51
S98	3	S92 and S97	EPO; JPO; DERWENT	OR	ON	2010/11/30 05:51
S99	6	((“20030097964”) or (“4529447”) or (“6162328”) or (“4214928”) or (“20030019599”) or (“20020100567”)).PN.	US-PGPUB; USPAT; USOOR	OR	OFF	2010/11/30 05:52
S100	1	(oxetanone diketene (ketene adj (dimer multimer))) and (tridecyl adj phosphate adj ester)	US-PGPUB; USPAT; USOOR; EPO; JPO; DERWENT	OR	ON	2010/11/30 05:55
S103	2	(“6051107”).PN.	US-PGPUB; USPAT; USOOR; EPO; JPO; DERWENT	OR	OFF	2010/11/30 07:39
S104	30	(AKD ((alkylketene ketene) adj dimer) alkyl \$1diketene) and ((dispers\$3 emulsif\$4 surfactant) same (naphthalene near5 (sulfonate (sulfonic adj acid)) near5 formaldehyde))	US-PGPUB; USPAT; USOOR	OR	ON	2010/11/30 11:48
S105	8	(AKD ((alkylketene ketene) adj dimer) alkyl \$1diketene) and ((dispers\$3 emulsif\$4 surfactant) same (naphthalene near5 (sulfonate (sulfonic adj acid)) near5 formaldehyde))	EPO; JPO; DERWENT	OR	ON	2010/11/30 11:49
S106	38	S104 S105	US-PGPUB; USPAT; USOOR; EPO; JPO; DERWENT	OR	ON	2010/11/30 11:49
S108	30	(AKD ((alkylketene ketene) adj dimer) alkyl \$1diketene) and ((dispers\$3 emulsif\$4 surfactant) same (naphthalene near5 (sulfonate (sulfonic adj acid)) near5 formaldehyde))	US-PGPUB; USPAT; USOOR	OR	ON	2010/11/30 14:31

**EAST Search History (Interference)**

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